A joint collaboration between Stark County Public Health Agencies:

Alliance City Health Department | Canton City Public Health
Massillon City Health Department | Stark County Health Department

Stark County, Ohio

April 17, 2020 Epi Report

Background from www.cdc.gov: Coronavirus disease 2019 (COVID-19) is a respiratory illness that can spread from person to person. The virus that causes COVID-19 is a novel coronavirus that was first identified during an investigation into an outbreak in Wuhan, China.
Priorities for testing may include:

1. *Hospitalized patients who have signs and symptoms compatible with COVID-19 in order to inform decisions related to infection control.*
2. *Other symptomatic individuals such as, older adults (age ≥ 65 years) and individuals with chronic medical conditions and/or an immunocompromised state that may put them at higher risk for poor outcomes (e.g., diabetes, heart disease, receiving immunosuppressive medications, chronic lung disease, chronic kidney disease).*
3. *Any persons including healthcare personnel, who within 14 days of symptom onset had close contact with a suspect or laboratory-confirmed COVID-19 patient, or who have a history of travel from affected geographic areas within 14 days of their symptom onset.*

A confirmed case or death *is defined by meeting confirmatory laboratory evidence for COVID-19.* ***A probable case or death*** *is defined by i) meeting clinical criteria AND epidemiologic evidence with no confirmatory laboratory testing performed for COVID-19; or ii) meeting presumptive laboratory evidence AND either clinical criteria OR epidemiologic evidence; or iii) meeting vital records criteria with no confirmatory laboratory testing performed for COVID19.*

All data contained is preliminary and is subject to change as more information is reported to Ohio Department of Health (ODH). Data presented in this document is based on data as of 4.17.2020. Cases from previous days are likely to change as more information is entered.

Counts and rates are based on date of illness onset. If onset date is unknown, the earliest known date is utilized. Any rates based on counts less than 10 are considered unreliable and caution should be exercised when interpreting. Due to testing restrictions, data may be skewed. Report compiled by Canton City Public Health.

Data is sourced from: coronavirus.ohio.gov, ODH data warehouse, and census.gov. "These data were provided by the Ohio Department of Health. The Department specifically disclaims responsibility for any analyses, interpretations or conclusions."

For questions regarding this report, please contact:

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Stark County Epi Situational Report - COVID-19
Table 1 as of: 04/17/2020 2:00PM

Next report scheduled: 4/20/2020

Cases Reported to Stark LHDs		
Data as of 04.17.2020 1400		
Positive/Confirmed	204	
Hospitalized	55	26.96%
ICU Admissions	16	7.84%
Deaths	22	10.78%
Probable	8	

Cases Reported to ODH*		
Data as of 04.17.2020 1400		
Positive/Confirmed	8858	
Hospitalized	2424	27.37%
ICU Admissions	740	8.35%
Deaths	401	4.53%
Probable	249	

Descriptive Statistics for Stark County Confirmed Cases

Gender			
	Confirmed Cases		Deaths
Male	81	39.71%	12
Female	122	59.80%	9
Unknown	1	0.49%	0
Total	204		21

Age Range (in Years)			
16	to	99	57.5
Min		*Max*	*Median*

Race				
	White	Black	Other	Unknown
Count	91	11	21	81
%	45%	5%	10%	40%

Ethnicity			
	Hispanic	Non-Hisp	Unknown
Count	2	76	126
%	1.0%	37.3%	61.8%

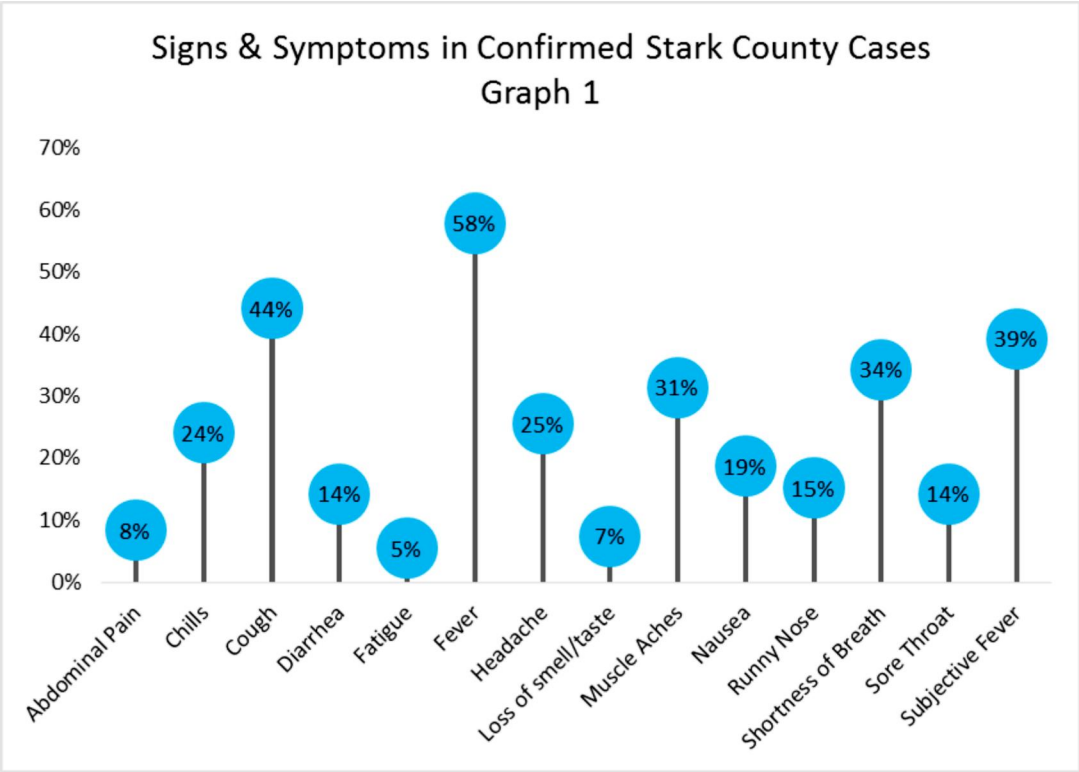
Illness Information for Stark County Confirmed Cases

Illness Onset Date or Earliest Known Date
2/25/2020 through 4/16/2020

Pre-existing Conditions		
Yes	131	64%
No	73	36%

Hospitalized		
Yes	55	27%
No	89	44%
Not reported	60	29%

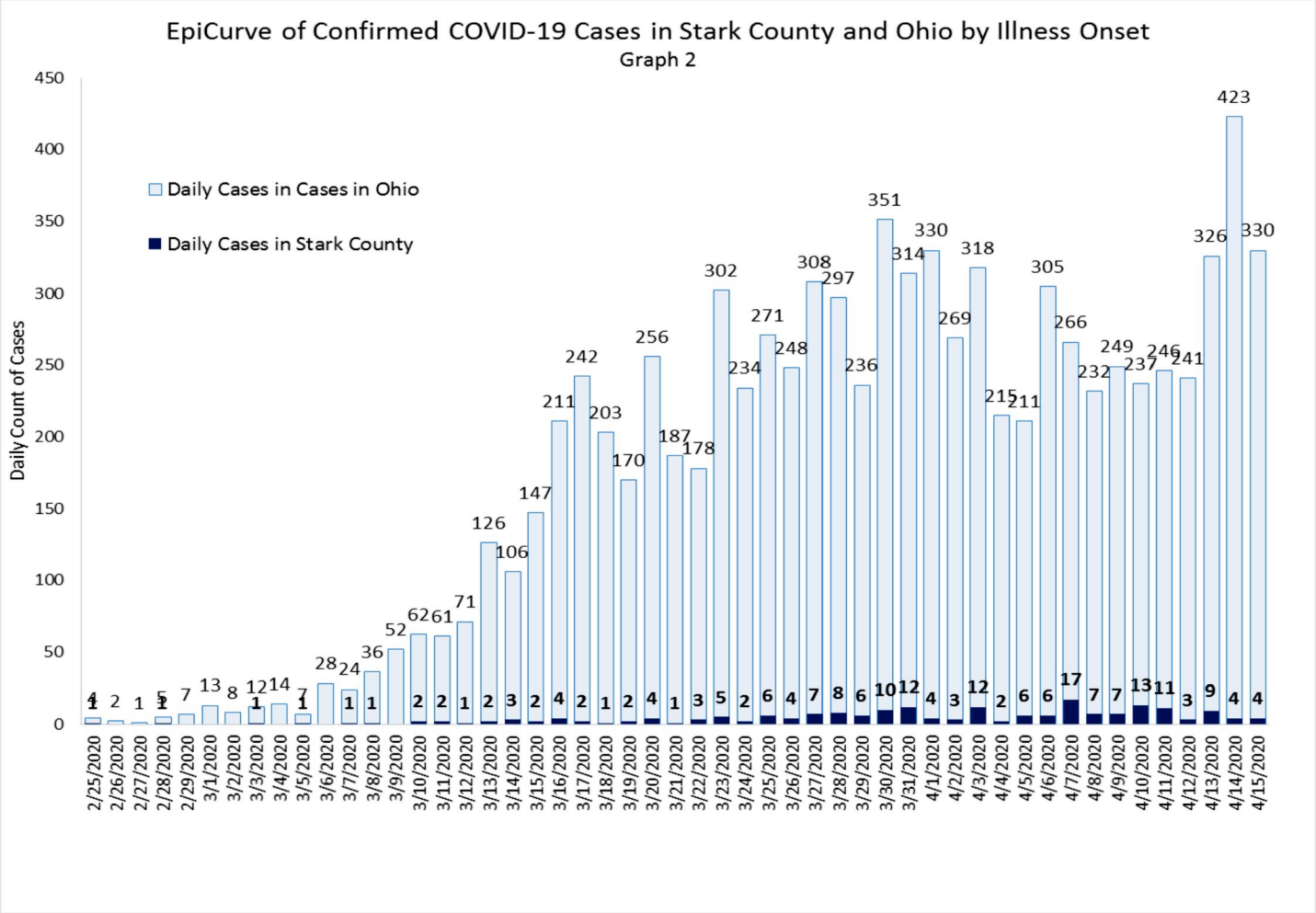
If hospitalized, in ICU?		
Yes	16	29%
No	39	71%



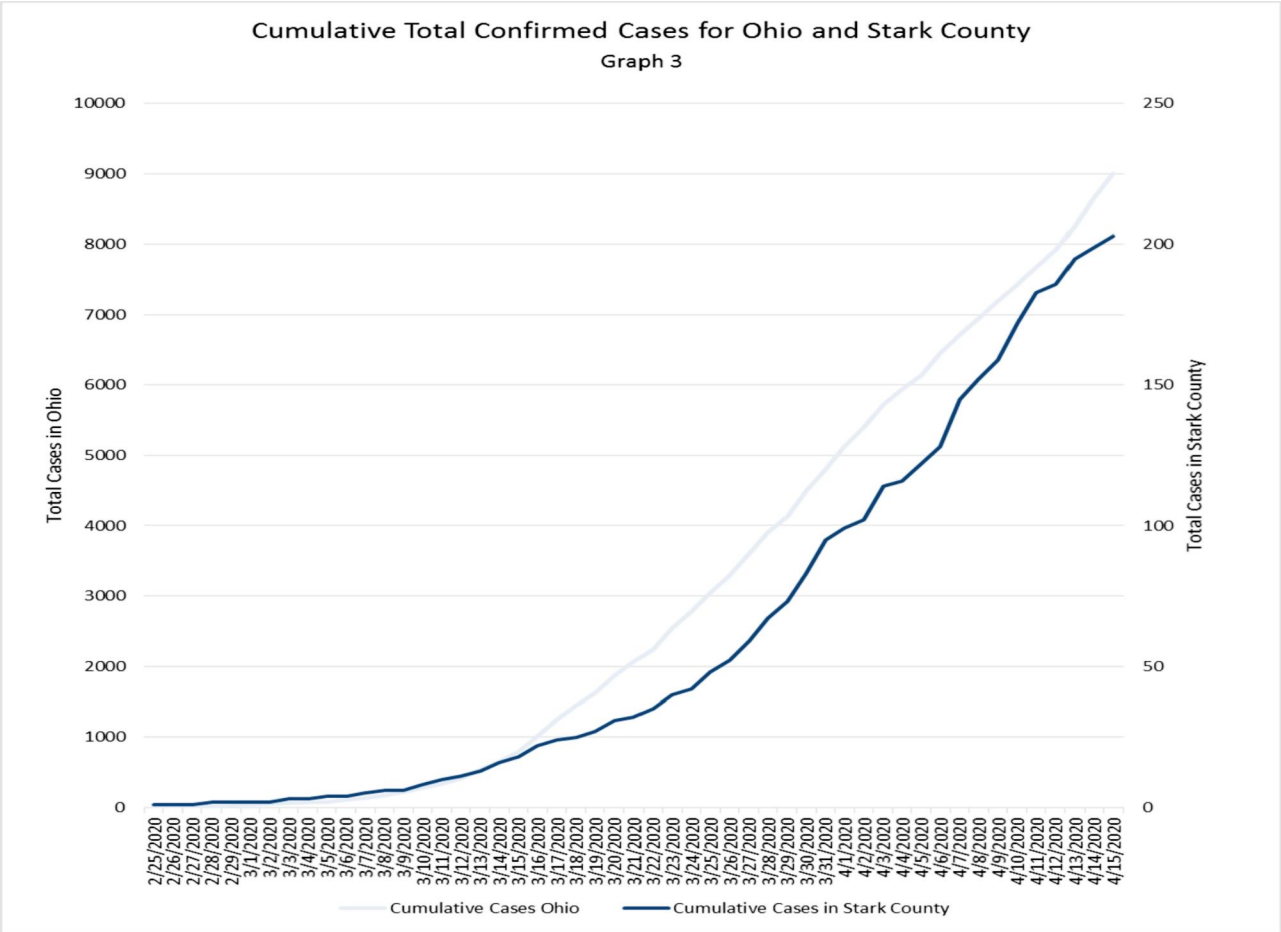
Graph 1 shows the incidence of signs and symptoms reported in confirmed cases of COVID-19 in Stark County. Two symptoms that are similar are subjective fever where in a patient felt feverish and fever in which is defined as a fever of >100.4F (38C). Additional symptoms may be added in the future as prevalence increases.

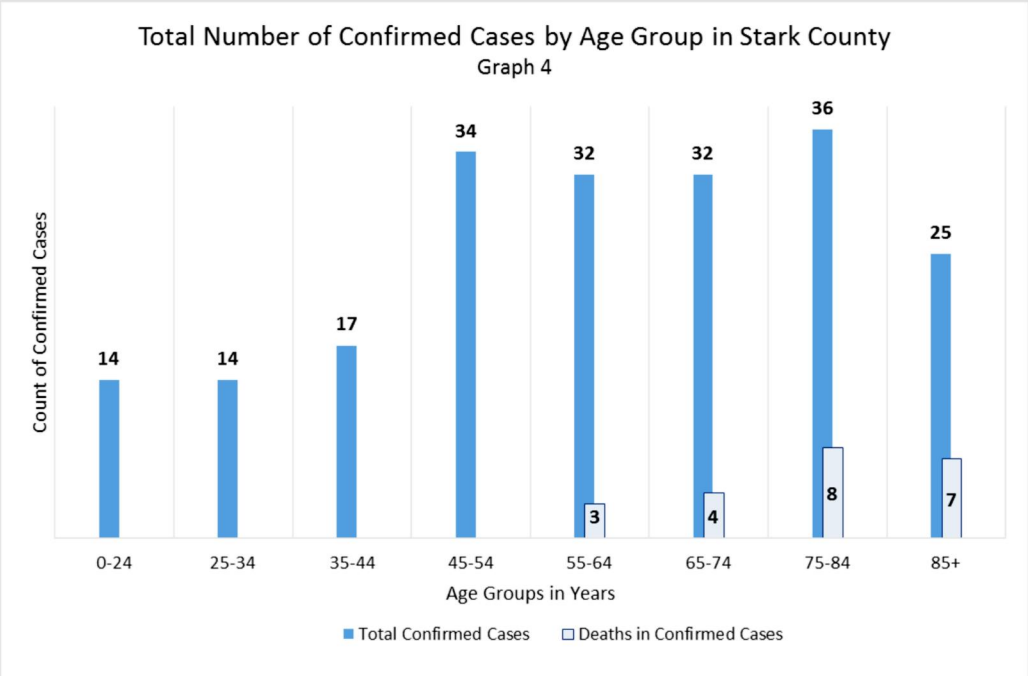
Signs/Symptoms Reported by Cases			
Table 2			
	Yes	No	% Yes
Abdominal Pain	17	75	8.3%
Chills	49	35	24.0%
Cough	90	21	44.1%
Diarrhea	29	63	14.2%
Fatigue	11	0	5.4%
Fever	118	28	57.8%
Headache	52	37	25.5%
Loss of smell/taste	15	0	7.4%
Muscle Aches	64	27	31.4%
Nausea	38	57	18.6%
Runny Nose	31	52	15.2%
Shortness of Breath	70	37	34.3%
Sore Throat	29	56	14.2%
Subjective Fever	80	25	39.2%

Table 2 is a count of known symptoms and number of cases in which those symptoms appear. Due to missing information, totals may not equal the total count of cases. Symptoms are listed in alphabetical order.



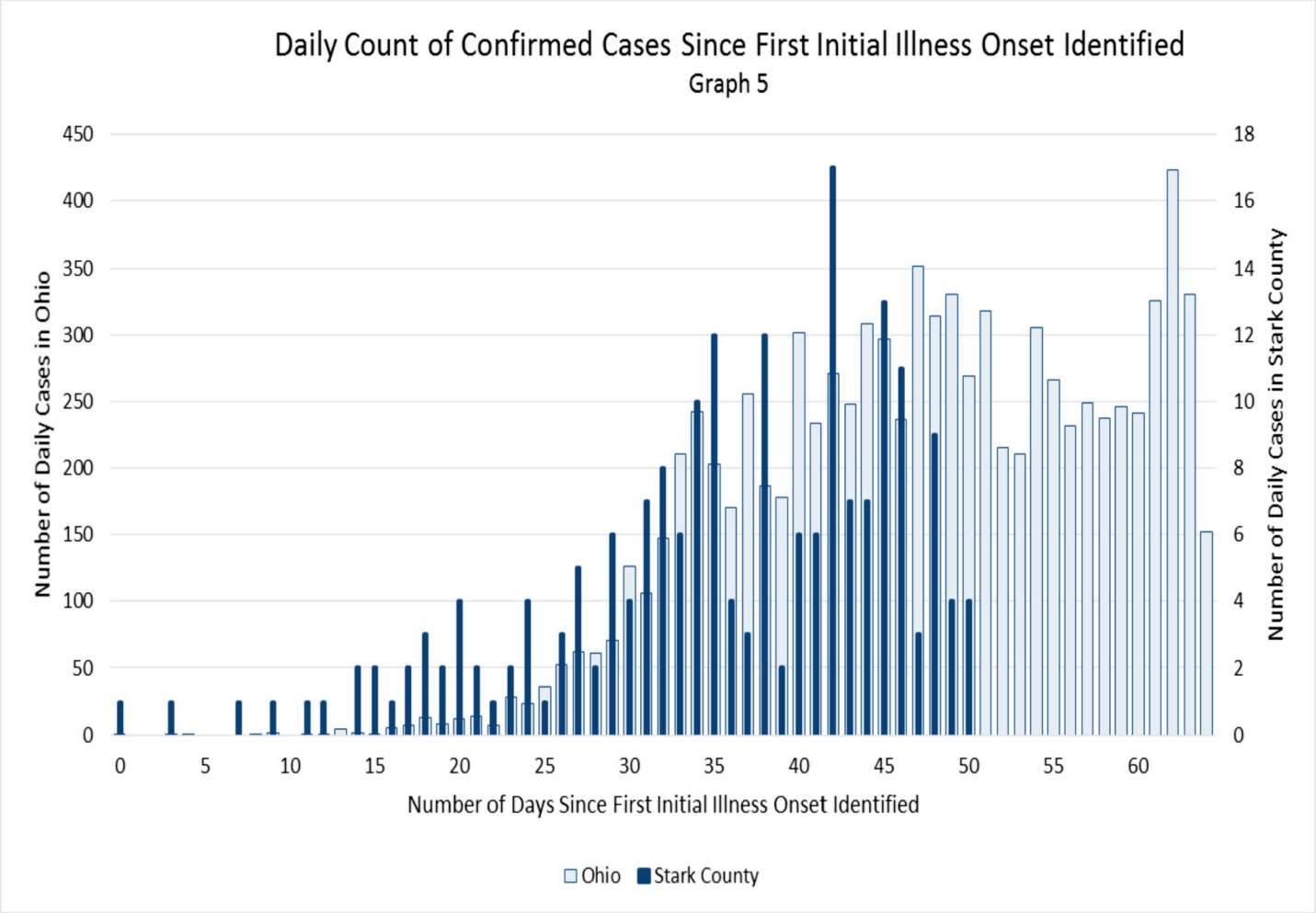
Graph 2 shows the EpiCurve which displays the total number of laboratory-confirmed cases per day, based on the illness onset date for Stark County and Ohio. If the illness onset date is not available, the earliest known date is utilized, which could include the date the specimen was collected, the date the test resulted or the date reported to the local health department. Counts will change as additional information is collected. Totals may not equal the totals on Table 1 depending on when data was accessed. Stark County's first confirmed case reported an illness onset date of 2/25/2020, while Ohio had cases prior to 2/25/2020, those are not included.



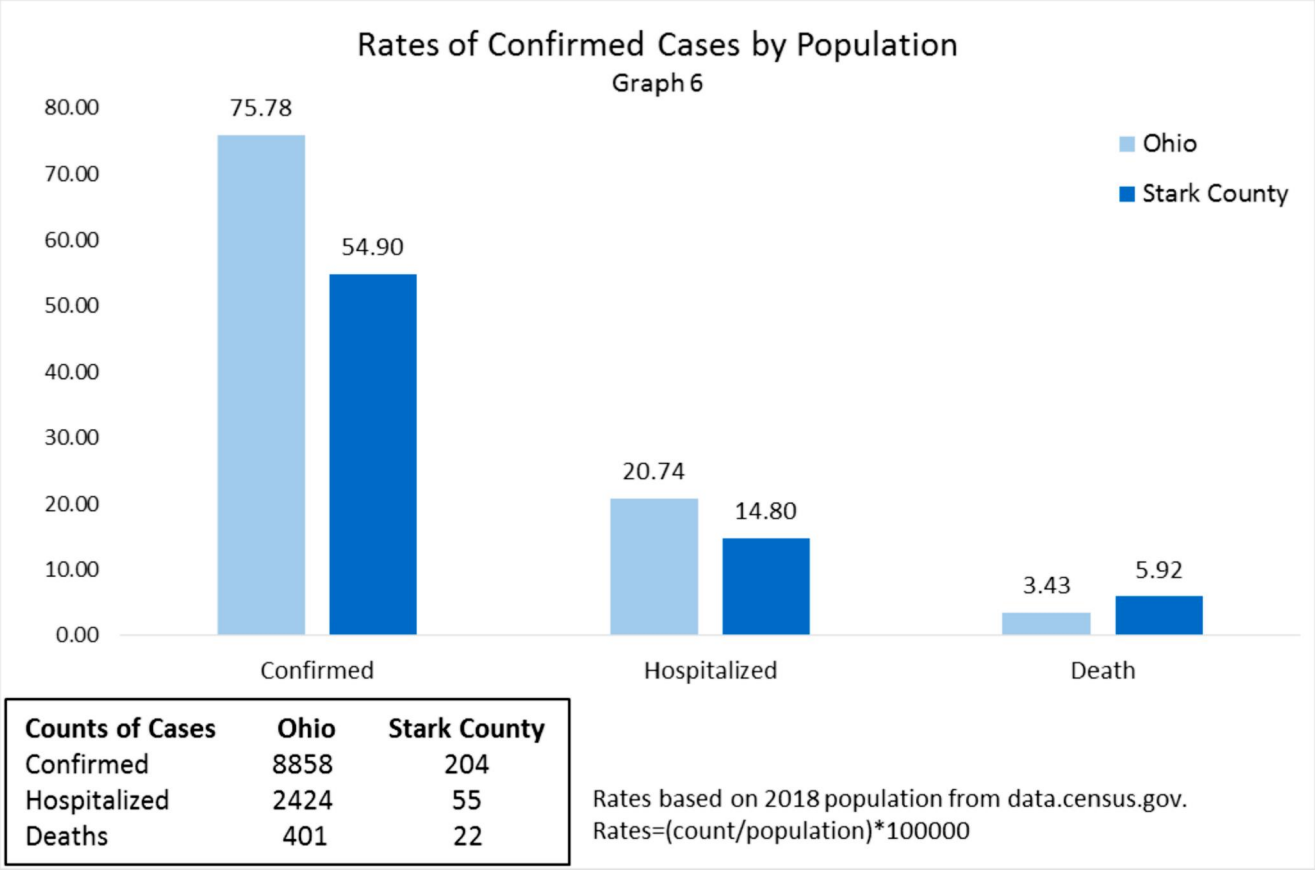


Graph 3 shows the cumulative cases in Ohio (left side/primary axis) and Stark County (right side/secondary axis) by date. The timeline begins with 2/25/2020 due to this date being the earliest illness onset date reported by a laboratory-confirmed case in Stark County.

Graph 4 shows the total number of confirmed cases and deaths of confirmed cases by age group. Due to low numbers in Stark County, the age groups are different than what is reported on a state level. Age groups may be broken down further as new cases emerge. Deaths counted are based on only laboratory-confirmed cases and does not include probable cases.



Graph 5 is based on number of days that have passed since the date of illness onset was reported by the first laboratory-confirmed case in Stark County and Ohio (Day 0). For Ohio, the first date of illness onset reported by a laboratory-confirmed case is 02/07/2020. For Stark County, the first date of illness onset reported by a laboratory-confirmed case was 02/25/2020. The number for total cases in Ohio is on the left/primary axis with Stark County on the right/secondary axis.

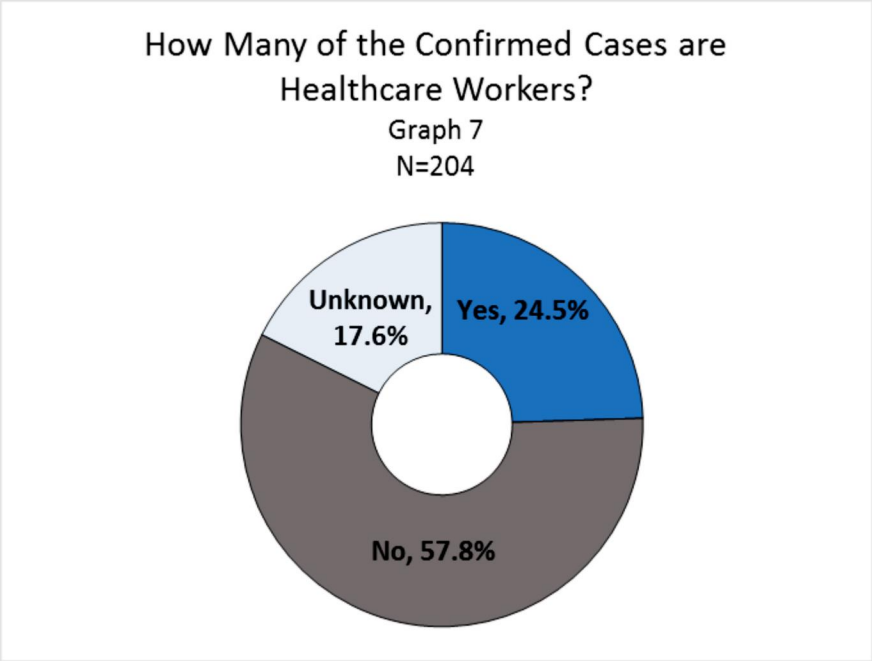


Counts of Cases	Ohio	Stark County
Confirmed	8858	204
Hospitalized	2424	55
Deaths	401	22

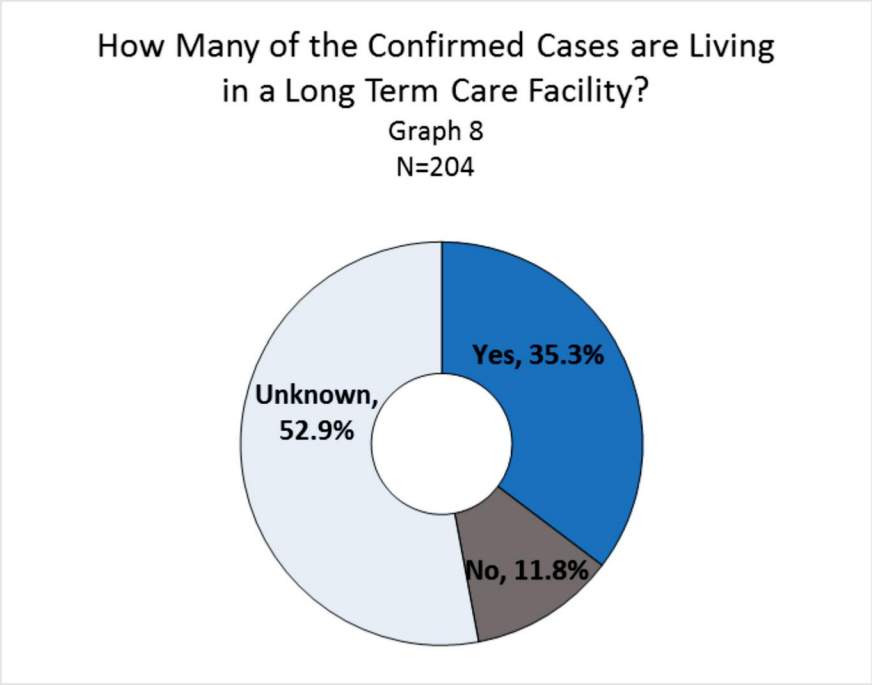
Graph 6 shows the rates dependent on the 2018 population in Ohio and Stark County. This graph works to compare cases in different populations by normalizing the cases per 100,000 persons.

- Ohio's rate of laboratory confirmed cases is 1.4x higher than those in Stark County.
- Ohio's rate of laboratory confirmed cases who require hospitalization is 1.4x higher than Stark County's rate.
- Stark County's rate of death due to COVID-19 complications is 1.7x higher than Ohio's rate.

As we are seeing more of a focus on health care workers and long-term care facilities, we are offering some additional information.



Graph 7* shows the breakdown of health care workers. Where you can see that of those with confirmed cases, 57.8% are not health care workers.



Graph 8* looks at the long-term care facilities in Stark County. Of those who have a laboratory-confirmed case of COVID-19, 35.3% of them reside in a long-term care facility.

For additional information on the facilities with cases, please visit: https://coronavirus.ohio.gov/

As with other numbers in this report, the cases listed in long-term care facilities are cumulative and may include individuals who have recovered or passed away.

*Due to priority testing guidelines the two populations in Graphs 7 & 8, are in Priority groups 1 & 2 for testing. Priority categories are listed on page 1 of this report. This may cause numbers for those groups to be skewed.